



Colorado Math-in-CTE Pilot

What is the Math-in-CTE model?

- Curriculum integration model
- Focus is to enhance mathematics embedded within CTE curriculum
- *The only research-based professional development model to show significant increase in student achievement (math) through CTE instruction*

The Core Principles

- Develop and sustain a community of practice among teachers
- Begin with the CTE curriculum and not the math curriculum
- Understand that math is an essential workplace skill
- Maximize the math in the CTE curriculum
- Recognize that CTE teachers are teachers of math-in-CTE, not math teachers

The Model

- A PROCESS and a PEDAGOGY
- Professional development between CTE and Math partners that forms a community of practice (10 days of professional development)
- Curriculum Mapping
 - CTE and math teachers work together to identify areas where math naturally occurs within the CTE curriculum
- Creating Math-enhanced Lessons
 - Teacher teams create plans using a seven-element pedagogic framework
- Developing a Scope and Sequence
 - A process of integration through which math is enhanced within the CTE curriculum
 - A sequence plan for scheduling and teaching created lessons is generated
- Teaching the Lessons
 - During the professional development sessions, teachers present and practice teaching their math-enhanced lessons
 - Questions are asked and answered and pedagogy is learned
- Revising the Lessons
 - Through the intermittent meetings, teachers evaluate and revise created lessons



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REGISTRATION INFORMATION

WHO: Business and/or Marketing Instructors
Industrial Technology (Construction or Welding) Instructors
Math Instructors

WHAT: Colorado Math-in-CTE Pilot

COST: \$440 for TEN days of Professional Development (per person)
Team (\$880) consists of a CTE and Math instructor
\$300 - Coordinator or Administrator

Includes instruction from trained facilitators from the National Research Center for Career & Technical Education, registration, meals, Math-in-CTE resource notebook and other equipment

WHEN: July 28-August 1
And 5 days during the 2008/2009 academic year

WHERE: Front Range Community College
3645 W. 112th Avenue
Westminster, Colorado

MAIL TO: Laura Mullen
Colorado Community College
9101 E. Lowry Blvd.
Denver, CO 80230-6011

CHECKS PAYABLE TO: Colorado Community College System
Reference: Math-in-CTE Pilot

DEADLINE: Friday, May 16, 2008

QUESTIONS: Elizabeth Garcia, CTE Coordinator
Thompson School District
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Brighton School District
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REGISTRATION FORM (please print, one form per team)

District _____	
District Contact/CTE Administrator _____	Office number _____ Cell number _____
CTE teacher _____ Summer email address _____ Cell phone or home number _____ Home address _____ _____	Content area _____ School address _____ _____ _____ Principal _____
Math teacher _____ Summer email address _____ _____ Cell phone or home number _____ Home address _____ _____	School address _____ _____ _____ Principal _____
CTE Teacher's anticipated courses for 2008/09	
Math Teacher's anticipated courses for 2008/09	
2008/2009 Academic Year	School end date:
School start date:	Christmas break:
Thanksgiving break:	Other significant dates:
Spring break:	